

SEQUENCE LISTING

<110> Lyamichev, Victor Allawi, Hatim Dong, Fang Neri, Bruce
Vener, Tatiana

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<141> 2001-06-15

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<210> 88 <211> 114 <212> DNA <213> Artificial <220> <223> Synthetic

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cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgg 114

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<210> 90 <211> 114 <212> DNA <213> Artificial <220> <223> Synthetic
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 cgggccccag cgccgaca 18

<210> 94 <211> 110 <212> DNA <213> Artificial <220> <223> Synthetic
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 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg 110

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 agggccccag cgccgaca 18

<210> 96 <211> 110 <212> DNA <213> Artificial <220> <223> Synthetic
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 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggccct 110

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<400> 97
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<210> 98 <211> 106 <212> DNA <213> Artificial <220> <223> Synthetic

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 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggga 106

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<210> 102 <211> 87 <212> DNA <213> Artificial <220> <223> Synthetic

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 cccgctgtcg gggttgaccc acaagcg 87

<210> 103 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 103
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<210> 104 <211> 87 <212> DNA <213> Artificial <220> <223> Synthetic

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<400> 105
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<210> 106 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

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 gtgacagatt gttgttct 18

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 gtgacagaaa gttgttct 18

<210> 109 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (9)..(10) <223> The residues at these
 positions are spacers with abasic sugar lab
 els.

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<400> 110
 tcacgtgagc gtccatga 18

<210> 111 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 111
 cagaccgcgc acagcggg 18

<210> 112 <211> 17 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 112
 gctcacgata ccccgac 17

<210> 113 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 113
 tgctcacgat accccgac 18

<210> 114 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

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<400>	115									
acagtcg	ggc	ggt	gttc							18
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ccccagc	ggc	gtt	gttct							18
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<210>	121	<211>	16	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400>	121									
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 cttaaggtag gactac 16

<210> 125 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic
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 cattttccaa ccttaa 16

<210> 126 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic
 <400> 126
 taaggtagga ctac 14

<210> 127 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic
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<210> 128 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic
 <220> <221> misc_feature <222> (15)..(18) <223> The residue at this
 position can be any nucleotide.
 <400> 128
 taaggtagga ctacnnnn 18

<210> 129 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic
 <220> <221> misc_feature <222> (15)..(20) <223> The residue at this
 position can be any nucleotide.
 <400> 129
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<210> 130 <211> 22 <212> DNA <213> Artificial <220> <223> Synthetic
 <220> <221> misc_feature <222> (15)..(22) <223> The residue at this
 position can be any nucleotide.
 <400> 130
 taaggtagga ctacnnnnnn nn 22

<210> 131 <211> 24 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(24) <223> The residue at this position can be any nucleotide.

<400> 131
taaggtagga ctacnnnnnn nnnn 24

<210> 132 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(26) <223> The residue at this position can be any nucleotide.

<400> 132
taaggtagga ctacnnnnnn nnnnnn 26

<210> 133 <211> 30 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(30) <223> The residue at this position can be any nucleotide.

<400> 133
taaggtagga ctacnnnnnn nnnnnnnnnn 30

<210> 134 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 134
ttttccaacc ttaa 14

<210> 135 <211> 22 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(22) <223> The residue at this position can be any nucleotide.

<400> 135
ttttccaacc ttaannnnnn nn 22

<210> 136 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(26) <223> The residue at this position can be any nucleotide.

<400> 136
ttttccaacc ttaannnnnn nnnnnn 26

<210> 137 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(14) <223> The residues in these positions are 2'-O-methyl nucleotides.

<400> 137
gtagtcctac cttta 14

<210> 138 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(14) <223> The residues in these positions are 2'-O-methyl nucleotides.

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ttaaggttg aaaa 14

<210> 139 <211> 24 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(24) <223> The residue at this position can be any nucleotide.

<400> 139
ttttccaacc ttaannnnnn nnnn 24

<210> 140 <211> 21 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(1) <223> The residue at this 5' end has a tetrachlorofluorescein label.

<400> 140
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<210> 141 <211> 987 <212> RNA <213> Artificial <220> <223> Synthetic

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ggaccugauc agcuugauac aagaacuacu gauuuaacu ucuuuggcuu aaucucucg 120
gaaacgauga aaauacaag uuauaucuug gcuuuucagc ucugcaucgu uuuggguucu 180
cuuggcuguu acugccagga cccauagua caagaagcag aaaaccuuua gaaauuuuu 240
aaugcagguc auucagaugu agcggauaau ggaacucuuu ucuuaggcau uuugaagaau 300
uggaaagagg agagugacag aaaaauaau cagagccaaa uugucuccuu uuacuucaaa 360
cuuuuuuuuu acuuuuuaga ugaccagagc auccaaaaga guguggagac caucaaggaa 420
gacaugaau ucaaguuuuu caauagcaac aaaaagaaac gagaugacuu cgaaaagcug 480
acuaauuuuu cgguaacuga cuugaauugc caacgcaaag caauacauga acucauccaa 540
gugauggcug aacugucgcc agcagcuaaa acagggaagc gaaaaaggag ucagaugcug 600
uuucgagguc gaagagcauc ccaguaaugg uuguccugcc uacaauuuuu gaauuuuuuu 660
ucuaaaucua uuuaauuaa uuuaacauua uuuaauuggg gaauauuuuu uuagacucau 720
caaucaaaaua aguauuuuaa auagcaacuu uuguguaaag aaaaugaaua ucuaauuaa 780

uanguauuau uuauaaauucc uauauccugu gacugucuca cuuaauccuu uguuuucuga 840
 cuaauuagggc aaggcuauugu gauuacaagg cuuuauucuca ggggccaacu aggcagccaa 900
 ccuaagcaag aucccauggg uuguguguuu auuucacuug augauacaau gaacacuuau 960
 aagugaagug auacuaacca guuacua 987

<210> 142 <211> 47 <212> RNA <213> Artificial <220> <223> Synthetic

<400> 142
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<210> 143 <211> 589 <212> RNA <213> *Oryctolagus cuniculus*

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 aucuguccag ugaggagaag ucugcgguca cugcccugug gggcaaggug aauguggaag 120
 aaguuggugg ugaggcccug ggcaggcugc ugguugucua cccauggacc cagagguucu 180
 ucgaguccuu ugaggaccug uccucugcaa augcuguuau gaacaauccu aaggugaagg 240
 cucauggcaa gaaggugcug gcugccuua gugagggucu gagucaccug gacaaccuca 300
 aaggcaccuu ugcuaagcug agugaacugc acugugacaa gcugcacgug gauccugaga 360
 acuucaggcu ccugggcaac gugcugguua uugugcuguc ucaucauuuu ggcaaagaau 420
 ucacuccuca ggugcaggcu gccuaucaga aggugguggc ugguguggcc aaugcccug 480
 cucacaaaaua ccacugagau cuuuuuuccu cugccaaaaa uuauggggac aucaugaagc 540
 ccuugagca ucugacuucu ggcuaauaaa ggaaauuuau uuucauugc 589

<210> 144 <211> 2891 <212> DNA <213> *Homo sapiens*

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 ccaggacctg gcaatgccca gacatctgtg tccccctcaa aagtcatect gccccgggga 180
 ggctccgtgc tggtgacatg cagcacctcc tgtgaccagc ccaagttgtt gggcatagag 240
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 acagctaaaa ccttcctcac cgtgtactgg actccagaac gggtggaact ggcacccctc 420

ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga ggggtggggca	480
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gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggtgga gctgtttgag	660
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gtcagcccc gggtcctaga ggtggacacg caggggaccg tggctctgttc cctggacggg	780
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gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca	960
ctgcagacag tgaccatcta cagctttccg gcgccccacg tgattctgac gaagccagag	1020
gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caagggtgacg	1080
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 cgctctgtca cccaggctgg agtgcagtg tgcaatcatg gttcaactga gtcttgacct 2820
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 acaccacacc t 2891

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<210> 146 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic
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<210> 147 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic
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 gaggagctca gcgtcgáctg 20

<210> 148 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic
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<210> 150 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

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ctctctcaat ttggctct 18

<210> 151 <211> 33 <212> DNA <213> Artificial <220> <223> Synthetic

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<210> 152 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

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cccccttttg gggg 14

<210> 153 <211> 30 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 153

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<210> 154 <211> 74 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 154

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tttaaaaagt ttga 74

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<400> 156

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<400> 157

aggcgcacca atttggtggt 20

<210> 158 <211> 1621 <212> RNA <213> Human immunodeficiency virus

<400> 158

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ugcuuaagcc ucaauaaagc uugccuugag ugcuucaagu agugugugcc cgucuguugu 120

gugacucugg	uaacuagaga	ucccucagac	ccuuuuaguc	aguguggaaa	aucucuagca	180
guggcgccccg	aacaggggacc	ugaaaagcgaa	agggaaacca	gaggagcucu	cucgacgcag	240
gacucggcuu	gcugaagcgc	gcacggcaag	aggcgagggg	cggcgacugg	ugaguacgcc	300
aaaaauuuug	acuagcggag	gcuagaagga	gagagauggg	ugcgagagcg	ucaguauuaa	360
gcggggggaga	auuagaucga	ugggaaaaaa	uucgguuuag	gccaggggga	aagaaaaau	420
auaaaauuuaa	acauauagua	ugggcaagca	gggagcuaga	acgauucgca	guuaauccug	480
gccuguuaga	aacaucagaa	ggcuguagac	aaauacuggg	acagcuacaa	ccaucuccuuc	540
agacaggau	agaagaacuu	agaucauuau	auaaauacagu	agcaaccuc	uauugugugc	600
aucaaaggau	agagauaaaa	gacaccaagg	aagcuuuaga	caagauagag	gaagagcaaa	660
acaaaaguua	gaaaaaagca	cagcaagcag	cagcugacac	aggacacagc	aaucaggguca	720
gccaaaauuu	cccuauagug	cagaacauc	aggggcaau	gguacaucag	gccauaucac	780
cuagaacuuu	aaaugcaugg	guaaaaguag	uagaagagaa	ggcuuucagc	ccagaaguga	840
uacccauguu	uucagcauuu	ucagaaggag	ccacccaca	agauuuuac	accaugcuua	900
acacaguggg	gggacaucaa	gcagccaugc	aaauguuaaa	agagaccauc	aaugaggaag	960
cugcagaaug	ggauagagug	cauccagugc	augcagggcc	uauugcacca	ggccagauga	1020
gagaaccaag	gggaagugac	auagcaggaa	cuacuaguac	ccuucaggaa	caaauaggau	1080
ggaugacaaa	uaauccaccu	aucccaguag	gagaaauua	uaaaagaugg	auaauccugg	1140
gauuaauuaa	aauguuaaga	auguauagcc	cuaccagcau	ucuggacaua	agacaaggac	1200
caaaggaacc	cuuuagagac	uanguagacc	gguucuaaua	aacucuaaga	gccgagcaag	1260
cuucacagga	gguaaaaaau	uggaugacag	aaaccuuguu	gguccaaaau	gcgaaccag	1320
auuguuaagac	uauuuuuuuu	gcauugggac	cagcggcuac	acuagaagaa	augaugacag	1380
caugucaggg	aguaggagga	cccggccaua	aggcaagagu	uuugggcugaa	gcaaugagcc	1440
aaguaacaaa	uucagcuacc	auaaugaugc	agagaggcaa	uuuuaggaa	caaagaaaga	1500
uuguuaagug	uuucaauugu	ggcaaagaag	ggcacacagc	cagaaauugc	agggccccua	1560
ggaaaaaggg	cuguuggaaa	uguggaaagg	aaggacacca	aaugaaagau	uguacugaga	1620
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<210> 159 <211> 1771 <212> RNA <213> Human immunodeficiency virus

<400> 159

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